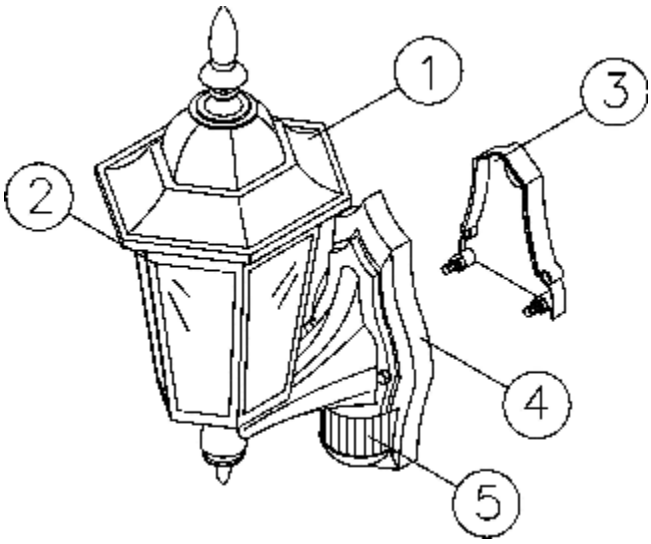
PROFESSIONAL PIR LANTERN



① Top Cover
② Glass
③ Back Plate
④ Front Cover
⑤ PIR Motion Sensor

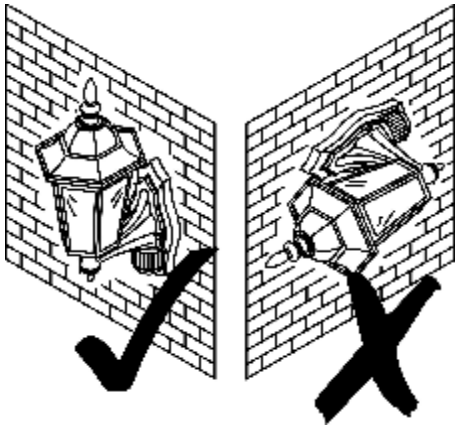
INTRODUCTION

Your PROFESSIONAL PIR LANTERN is a unique indoor or outdoor lighting system for your home or business. At night, the built-in passive infrared (PIR) motion sensor turns on the LANTERN when it detects motion in its coverage area. During the day, the built-in photocell sensor saves electricity by deactivating the lantern. An adjustable timer lets you select how long the lantern stays on after activation. The sensitivity function lets you adjust the light level that the photocell requires to deactivate the unit for daytime periods according to your application.

Note: Read this entire manual before you start to install the system.

SAFETY PRECAUTIONS

- Do not install when it is raining.
- Be sure to switch off power source before installing.
- Make sure that the power wiring comes from circuit with an external 16A miniature circuit breaker for the short circuit protection or a suitable fuse.
- Keep minimum 0.8m away from the lighted objects.
- The unit can be installed only vertically (FIGURE 1a), not horizontally (FIGURE 1b).



VERTICAL HORIZONTAL
FIGURE 1a & 1b

IMPORTANT

Some local building codes may require installation of this product by a qualified electrician.

Check your local codes as they apply to your situation. If the house wiring is of aluminum, consult with an electrician about proper wiring methods.

Before proceeding with the installation, TURN OFF THE POWER TO THE LIGHTING CIRCUIT AT THE CIRCUIT BREAKER OR FUSE BOX TO AVOID ELECTRICAL SHOCK.

CHOOSING A MOUNTING LOCATION

- For the best results, fix your lantern on a solid surface, 1.8~2.5m above the ground.
- For outdoor installation, a location under eaves is preferable.
- Avoid aiming the motion sensor at pools, heating vents, air conditioners or objects which may change temperature rapidly.
- Do not allow sunlight to fall directly on the front of unit.
- Try to avoid pointing the unit at trees or shrubs or where the motion of pets may be detected.
- Prior to mounting, keep in mind that the motion sensor is most sensitive to the motion, which is across the detection field and less sensitive to the motion, which moves directly towards the detector (FIGURE 2).

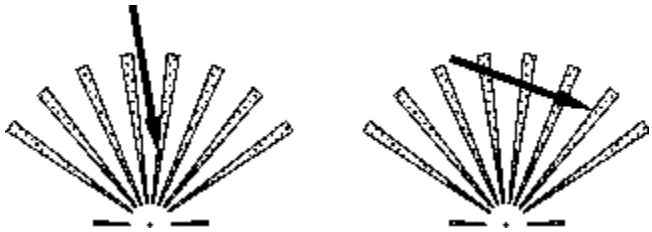


FIGURE 2

BULB INSTALLATION

(1) Do not touch the bulb while it is in use or still hot. Allow it to cool (about 5 minutes) before touching it.
(2) Do not use the bulb rated higher than 60 watts.
(3) Switch off the power source. Unscrew retaining screw from the top cover (FIGURE 3).

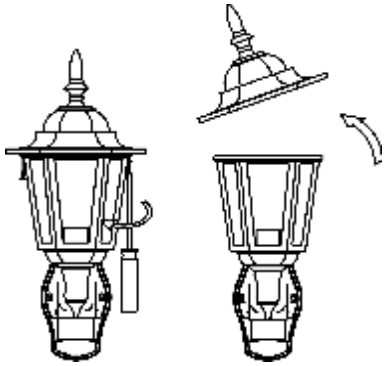


FIGURE 3

(4) Replace the new bulb and screw back the top cover (FIGURE 5).

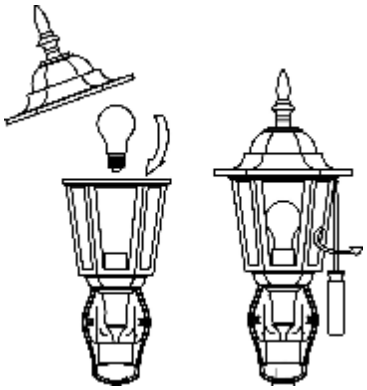
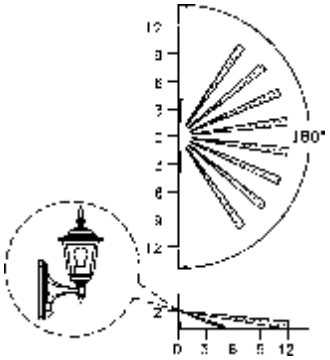


FIGURE 4

INSTALLATION

To facilitate installation, it is essential to get a drill and a screwdriver ready. Select a location for the unit based on the coverage angles shown in FIGURE 5.



COVERAGE ANGLES
FIGURE 5

Install a wall switch indoors adjacent to the unit (FIGURE 6). This helps you operate the lantern with ease. See OPERATION for further information.

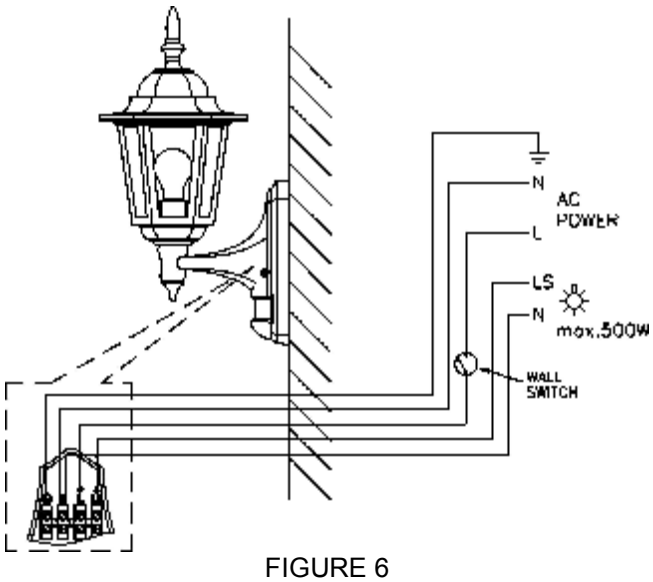


FIGURE 6

WIRING INSTRUCTION

(1) Switch off the power source.
(2) Unscrew the back plate from the front cover (Figure 11). There is a “UP” mark shown on the back plate. Be sure to have “UP” mark shown upwardly when fixing the back plate onto the wall (FIGURE 7).

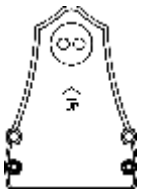


FIGURE 7

(3) Use a screwdriver to break a small hole on the cable gasket (FIGURE 8), enabling the power cord to enter the back plate. Route the power cord through the cable gasket.

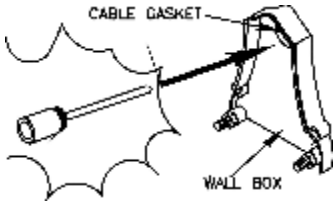


FIGURE 8

Note: The power cord must meet H05RN-F, 3G, 1.0mm^2 requirement.

(4) Fix the back plate to the pre-determined mounting location by making use of the two screws provided (FIGURE 9)

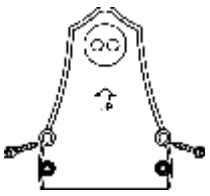


FIGURE 9

(5) Strip approximately 6-8mm insulating part of the wires from the power cord.

(6) Connect the BROWN wire (Live wire) to the terminal block “L” mark. Connect the BLUE wire (Neutral wire) to the terminal block “N” mark. Connect the YELLOW/GREEN (Ground wire) to the terminal block “ ⏚ “ mark (FIGURE 10).

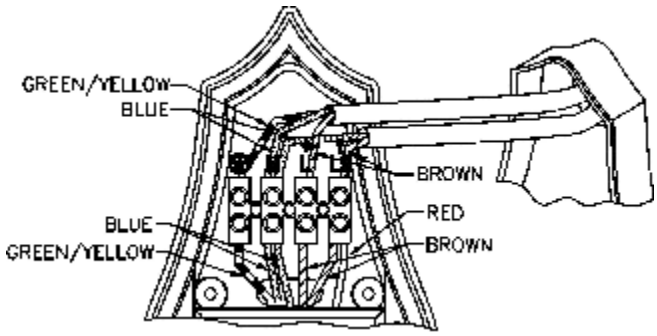


FIGURE 10

(7) Place the front cover to the back plate and secure it with the two screws provided (FIGURE 11).

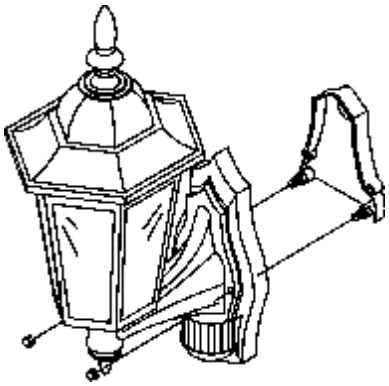


FIGURE 11

SETTING THE LIGHTING SYSTEM

(1) TEST MODE

- Make sure that the black label is stuck on photocell sensor (FIGURE 12)

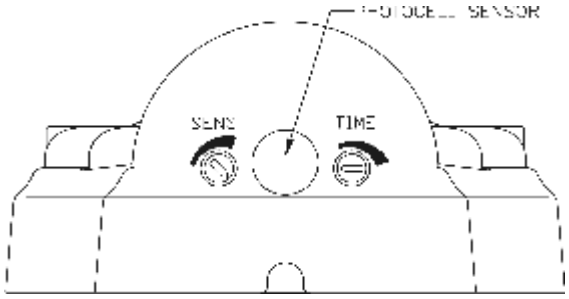


FIGURE 12

- Turn the time control knob fully anti-clockwise this is minimum time for test purposes.
- Turn on the power.
- Wait for about 1 minute to warm up the device, then start testing.
- Walk through the detection area. The light turns on when you move and turns off when you stop. Wait for the light to turn off before moving again to test the sensor.
- Take off the black label from photocell sensor.

- The unit is in AUTOMATIC OPERATION after taking off the black label from photocell sensor.

(2) TIME ADJUSTMENT

The TIME adjustment controls how long the light will stay on after the motion has been detected.

Turn the TIME control knob clockwise to increase (up to about 12 minutes) how long the lights stay on or anti-clockwise to decrease (down to about 5 seconds) the time delay (FIGURE 13).

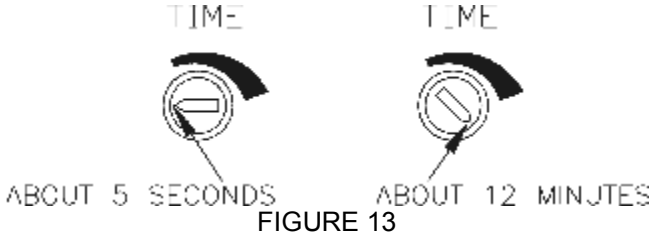


FIGURE 13

(3) SENSITIVITY ADJUSTMENT

The sensitivity (SENS) adjustment controls the operation of the photocell. It can be adjusted to compensate for seasonal variations in light levels and to reduce unwanted triggering during daylight. The optimum sensitivity can normally be achieved by setting the SENS control knob to its mid position. If daylight operation still occurs turn the SENS control further anti-clockwise. Note turning the SENS control too far clockwise will cause the unit to operate even during normal daylight hours.

FIGURE 14

OPERATION

By using the connected wall switch, you can easily operate the lantern.

AUTOMATIC OPERATION

Turn on the wall switch. The light will be on when the sensor detects motion and will be off after the motion is stopped or out of detection range. The unit is active only from dusk to dawn when correctly set.

TROUBLE SHOOTING

Light does not turn on: ● Confirm that you have made a correct “wiring connection”. ● Make sure that the bulb has not burned out.
Light remains on: ● Make sure the wiring connection is correct. ● Check if the TIME setting is correct.
Others: ● Consult with your local service agent or a qualified electrician.

SPECIFICATIONS	
Power Requirement	AC 220 ~ 240V / 50Hz
Lighting Load	Max. 60W Incandescent
Additional Lighting Load	Max. 500W
Detection Angle	Up to 180° at 20° C
Detection Distance	Up to 12m (39.4ft) at 20° C
Power Cord Requirement	H05RN-F, 3G,1.0mm ^{2}
Mounting Height	Recommended 1.8~2.5m (5.9~8.2ft) Wall Mount
Wall Switch Control	On /Off
Time Adjustment	5±3 sec. ~ 12±3 min.
Lux Adjustment	Manual SENS Control
Operation Temperature	-20° C ~ +40° C
Warm Up Time	About 1 min.
Protection Class	I
Protection Degree	IP44
Safety	CE, GS

CE

Phase Lighting